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NOTICE OF ALLOWANCE AND FEE(S) DUE

27045 7590 ERICSSON INC. 6300 LEGACY DRIVE M/S EVR 1-C-11 PLANO, TX 75024 05/03/2011

EXAMINER
ZIA, SYED

ART UNIT PAPER NUMBER

2431

DATE MAILED: 05/03/2011

APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,864	08/10/2006	Rolf Blom	P18376-US1	7275

TITLE OF INVENTION: KEY MANAGEMENT FOR NETWORK ELEMENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/03/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u> SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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or <u>Fax</u> (571)-273-2885

indicated unless correct maintenance fee notifica CURRENT CORRESPOND]	Note Fee(s	: A certificate of m	nailing certifi	can only be used for cate cannot be used for	correspondence address as a tate "FEE ADDRESS" for domestic mailings of the or any other accompanying to or formal drawing must		
27045 ERICSSON IN 6300 LEGACY M/S EVR 1-C-1 PLANO, TX 750	3/2011]	papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
-,								(Depositor's name)
								(Signature)
			l					(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ΓOR		ATTOR	RNEY DOCKET NO.	CONFIRMATION NO.
10/597,864 TITLE OF INVENTION	08/10/2006 I: KEY MANAGEMENT	Γ FOR NETWORK ELEI	Rolf Blom MENTS]	P18376-US1	7275
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	08/03/2011
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ZIA, S	SYED	2431	713-171000	_				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Uni	" Indication form ed. Use of a Customer A TO BE PRINTED ON '	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. CHE PATENT (print or type) data will appear on the patent. If an assignee is identified below, the document has been filed for						
(A) NAME OF ASSIC	GNEE riate assignee category or	pletion of this form is NO categories (will not be pa	(B) RESIDENCE: (C	ITY Pleas	and STATE OR CO	poratio	on or other private gro	up entity Government
☐ Issue Fee ☐ Publication Fee (N☐ Advance Order - #		 ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number						
5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY state	· /	□ h. Ameliaantia na	1	on alaimina CMALI	- ENTE	ITY status. See 37 CF	D 1 27(~)(2)
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte	d from anyone other th					e assignee or other party in
interest as shown by the	records of the United Sta	ites Patent and Trademark	Office.					
Authorized Signature					Date			
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10/597,864	08/10/2006	Rolf Blom	P18376-US1	7275
27045 75	90 05/03/2011		EXAM	INER
ERICSSON INC.		ZIA, SYED		
6300 LEGACY DF M/S EVR 1-C-11	RIVE		ART UNIT	PAPER NUMBER
PLANO, TX 75024	ļ		2431	

DATE MAILED: 05/03/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 904 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 904 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

	Application No.	Applicant(s)	
	10/597,864	BLOM ET AL.	
Notice of Allowability	Examiner	Art Unit	
	OVED ZIA	2421	
	SYED ZIA	2431	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due cour	rse. THIS
1. This communication is responsive to <u>02/16/2011</u> .			
2. X The allowed claim(s) is/are 30-58.			
 3. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have) or (f).	
2. Certified copies of the priority documents have		ion No.	
3. \(\sum \) Copies of the certified copies of the priority do			from the
International Bureau (PCT Rule 17.2(a)).	odinonto navo bosh roccii	od III ililo Halloriai olago applicationi	1101111110
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			CE OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			k) of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	o./Mail Date s Amendment/Comment	
Paper No./Mail Date4.	8. 🛛 Examiner	s Statement of Reasons for Allowan	ıce
of Biological Material	9.	<u></u>	
/Syed Zia/			
Primary Examiner, Art Unit 2431			

This office action is in response to remarks filed February 16, 2011. Claims 30-58 are pending.

Drawings

The drawings submitted on August 10, 2006 are acceptable.

Response to Amendment

Amendments filed on November 16, 2010 has been entered and made of record.

Response to Arguments

Applicant's arguments filed on February 16, 2011 have been fully considered and previous rejection has been withdrawn.

Allowable Subject Matter

Claims 30-58 are allowed over prior arts.

The above mentioned claims are allowable over prior arts because the CPA (Cited Prior Art) of record fails to teach or render obvious the claimed limitations in combination with the specific added limitations, as recited in independent claims and subsequent dependent claims.

The following is an examiner's statement of reasons for allowance:

The present invention is directed to a method of session key in communication system that involves providing session key and its copy to network elements of different network

domain respectively using different authentication, authorization and accounting servers for establishing session key shared between network elements. An authentication, authorization and accounting server of a network domain, generates session key based on shared secret key and generated freshness token, and provides it to a network element. An authentication, authorization and accounting server of another domain, generates a copy of session key based on shared secret key and provided freshness token, and provides it to another network element.

Thus, the cited prior art does not explicitly teach or suggest a system of enabling secure communication between a first network element of a first network domain and a second network element of a second network domain, said first network domain sharing a secret key with said second network domain, wherein said first network domain comprises:

first cryptographic means for generating a freshness token and for generating a session key based on said shared secret key and said generated freshness token;

means for providing said session key from said first cryptographic means to said first network element; and,

means for providing said freshness token to said second network domain; said second network domain comprises:

second cryptographic means for generating a copy of said session key based on said shared secret key and said provided freshness token; and,

means for providing said copy of said session key from said second cryptographic means to said second network element, said first network element comprises means for conducting secure communication with said second network element based said session key and said second

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network element comprises means for conducting secure communication with said first network element based on said copy of said session key.

Page 4

The examiner has found that the prior art of record does not appear to teach or suggest or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims and subsequent dependent claims. The prior art of record fails to teach or suggest a system and method as mentioned above.

An updated search did not reveal any prior art that would anticipate or make obvious the currently claimed invention.

1. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to SYED ZIA whose telephone number is (571)272-3798. The

examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William R. Korzuch can be reached on 571-272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SZ

April 23, 2011

/Syed Zia/

Primary Examiner, Art Unit 2431